

## ABSTRACT OF THE DISCLOSURE

An optical component installation apparatus adapted to assemble a plurality of components onto a plurality of fiber optic cables being processed within a multi-stage integrated optical component processing system. The component installation apparatus includes a fiber preparation apparatus adapted to remove an outer protective coating from a fiber optic cable to expose a fiber optic cladding and core for processing in a multi-stage integrated optical component processing system. The fiber preparation apparatus includes a fiber optic cable cutting tool configured to cut an optical fiber, a fiber optic cable stripping tool coupled to the fiber optic cable cutting tool and adapted to remove at least a portion of the fiber optic cladding and core, and a fiber gripper apparatus adapted to grip the fiber optic cable to expose a segment of the fiber optic cable for processing and position the pre-defined segment of the fiber optic cable in a processing position with respect to the fiber optic cable cutting tool and fiber optic cable stripping tool.